

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P638752

Luminaire Tested: GWS-SA4F-740-U-SL4-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638752
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-740-U-SL4-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26808.4 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

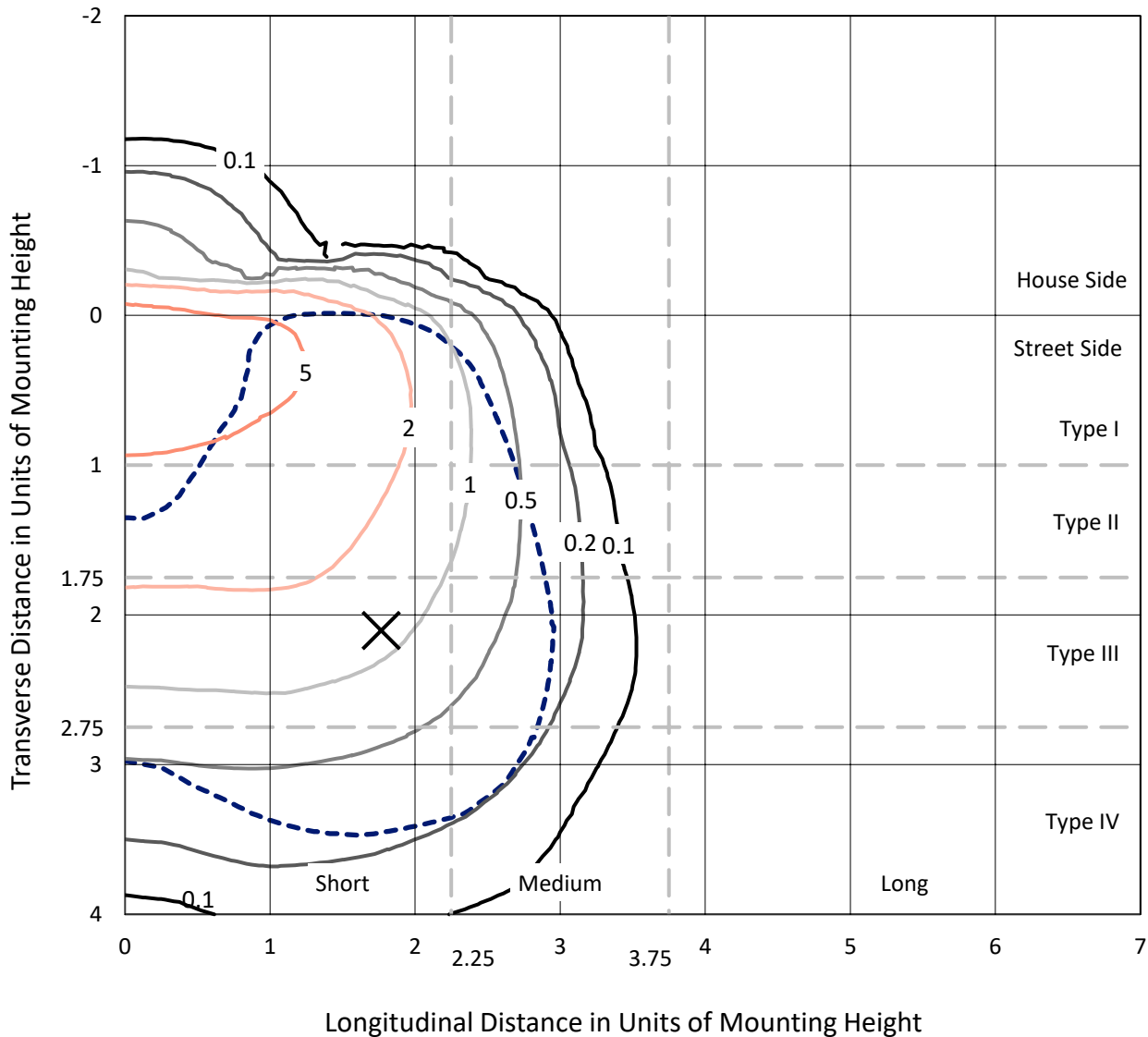
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P638752
 CATALOG NUMBER: GWS-SA4F-740-U-SL4-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

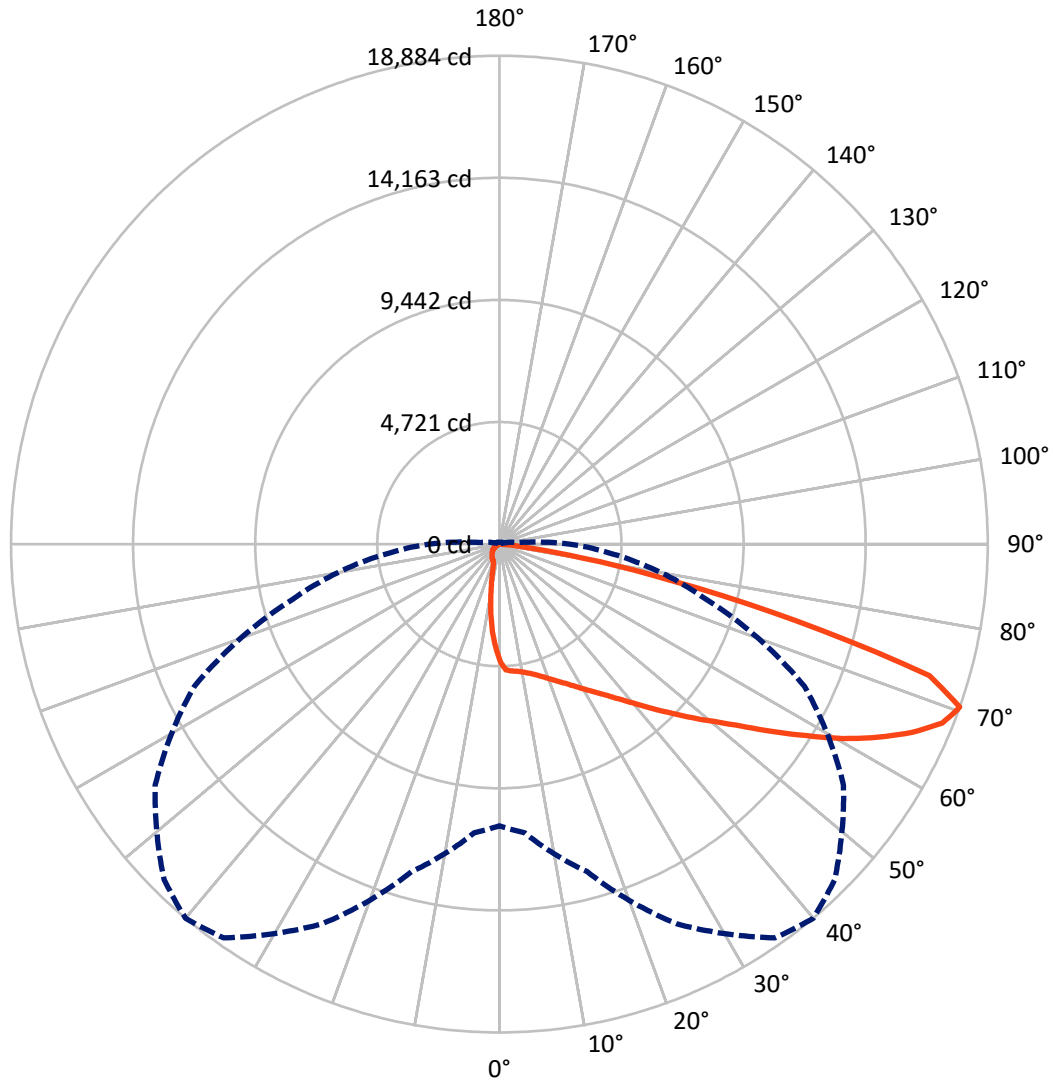
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P638752
CATALOG NUMBER: GWS-SA4F-740-U-SL4-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P638752

CATALOG NUMBER: GWS-SA4F-740-U-SL4-W-HSS

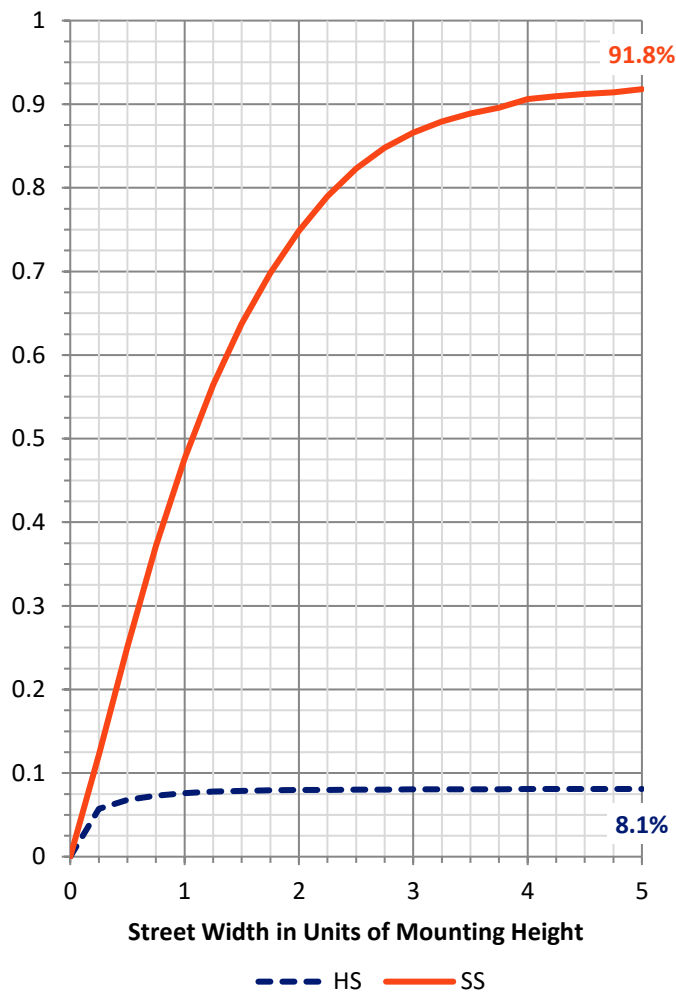
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2192.2	0.0	2192.2
	% Fixture	8.2	0.0	8.2
Street Side	Lumens	24616.2	0.0	24616.2
	% Fixture	91.8	0.0	91.8
Total	Lumens	26808.4	0.0	26808.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.5	1.4
10°-20°	975.1	3.6
20°-30°	1632.1	6.1
30°-40°	2563.4	9.6
40°-50°	4054.7	15.1
50°-60°	5914.7	22.1
60°-70°	7332.1	27.4
70°-80°	3709.6	13.8
80°-90°	242.2	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	26808.4	100.0
0°-180°	26808.4	100.0

Coefficient of Utilization



REPORT NUMBER: P638752

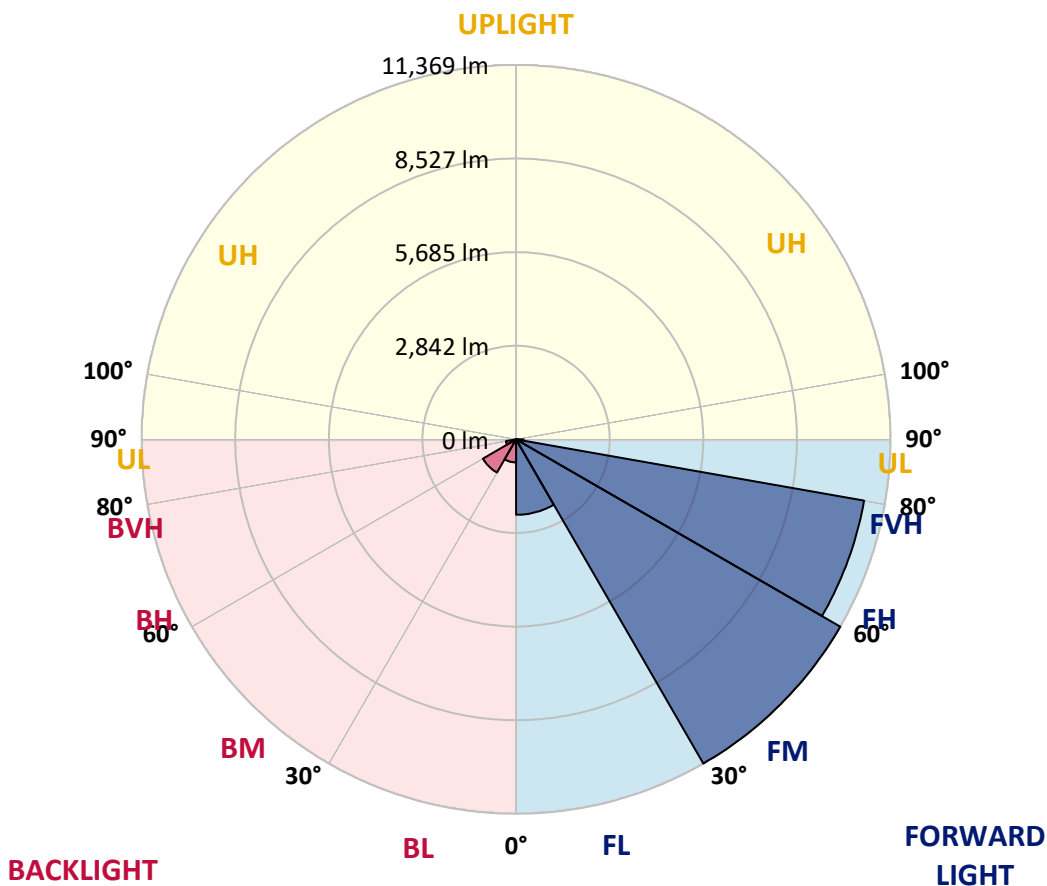
CATALOG NUMBER: GWS-SA4F-740-U-SL4-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2291.6	8.5			
FM (30°-60°)	11369.1	42.4			
FH (60°-80°)	10729.2	40.0			G4/12000
FVH (80°-90°)	226.2	0.8			G3/500
BL (0°-30°)	700.1	2.6	B2/1000		
BM (30°-60°)	1163.6	4.3	B2/2500		
BH (60°-80°)	312.6	1.2	B1/500		G1/500
BVH (80°-90°)	16.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





REPORT NUMBER: P638752

CATALOG NUMBER: GWS-SA4F-740-U-SL4-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4549.1	4549.1	4549.1	4549.1	4549.1	4549.1	4549.1	4549.1	4549.1	4549.1	4549.1
2.5°	4890.5	4907.6	4905.2	4912.5	4895.4	4868.6	4863.7	4827.1	4761.3	4678.3	4585.7
5°	4990.6	5010.1	4995.4	4988.1	4956.4	4927.1	4919.8	4880.8	4805.2	4693.0	4532.0
7.5°	5075.9	5080.8	5071.0	5054.0	5007.6	4968.6	4941.8	4888.1	4797.9	4685.7	4500.3
10°	5090.6	5088.1	5093.0	5095.4	5066.2	5032.0	5010.1	4936.9	4822.3	4702.7	4502.7
12.5°	5073.5	5073.5	5105.2	5141.8	5141.8	5124.7	5102.8	5036.9	4902.7	4761.3	4551.5
15°	5095.4	5102.8	5163.7	5232.0	5254.0	5236.9	5227.2	5158.9	5019.8	4863.7	4639.3
17.5°	5173.5	5180.8	5278.4	5380.8	5407.7	5388.1	5368.6	5300.3	5151.5	4980.8	4739.3
20°	5288.1	5307.6	5432.0	5563.8	5588.2	5563.8	5524.7	5429.6	5280.8	5107.6	4834.4
22.5°	5497.9	5510.1	5644.3	5783.3	5795.5	5756.5	5697.9	5566.2	5410.1	5241.8	4941.8
25°	5776.0	5793.0	5927.2	6061.4	6029.6	5971.1	5890.6	5741.8	5563.8	5400.3	5078.4
27.5°	6107.7	6127.2	6258.9	6376.0	6293.1	6224.8	6134.5	5949.2	5768.7	5619.9	5254.0
30°	6466.3	6483.3	6600.4	6705.3	6595.5	6515.0	6407.7	6217.5	6034.5	5922.3	5502.8
32.5°	6812.6	6810.2	6922.4	7007.8	6895.6	6832.1	6734.6	6541.9	6395.5	6346.7	5873.5
35°	7134.6	7134.6	7227.3	7312.7	7232.2	7198.0	7107.8	6954.1	6871.2	6929.7	6368.7
37.5°	7459.0	7441.9	7529.7	7624.9	7617.5	7620.0	7568.8	7495.6	7500.5	7707.8	7049.2
40°	7727.3	7720.0	7822.4	7946.8	8044.4	8122.5	8090.7	8117.6	8271.2	8659.1	7920.0
42.5°	7942.0	7959.0	8090.7	8288.3	8534.7	8693.2	8715.2	8824.9	9220.1	9820.1	8903.0
45°	8188.3	8190.8	8373.7	8676.2	9068.9	9320.1	9407.9	9690.8	10251.9	11025.1	9981.1
47.5°	8490.8	8461.5	8666.4	9090.8	9659.1	10029.9	10186.0	10539.7	11408.0	12200.8	10859.2
50°	8824.9	8771.3	9003.0	9581.1	10320.2	10783.6	11100.7	11617.8	12554.4	13166.7	11512.9
52.5°	9212.8	9161.5	9425.0	10144.5	11112.9	11676.3	12083.7	12605.7	13537.4	13903.3	11903.2
55°	9705.5	9654.3	9932.3	10820.2	12049.5	12781.3	13208.1	13647.2	14452.1	14447.2	12186.1
57.5°	10251.9	10181.1	10566.5	11673.9	13217.9	13978.9	14413.1	14627.7	15147.3	14869.2	12376.4
60°	10878.7	10815.3	11349.5	12691.0	14566.8	15271.7	15544.9	15457.1	15718.1	15118.0	12310.5
62.5°	11444.6	11415.3	12078.8	13769.2	15852.2	16447.4	16523.0	16140.0	16137.6	15122.9	11866.6
65°	12032.5	12088.6	13074.0	15010.7	17145.0	17545.0	17415.7	16818.1	16305.9	14525.3	10554.3
67.5°	12252.0	12415.4	13730.1	16132.7	18164.5	18476.8	18249.9	17157.2	15605.9	12515.4	8037.1
70°	10895.8	11203.1	13110.6	16196.1	18586.5	18884.1	18340.2	16244.9	13010.6	8290.8	4402.7
72.5°	8285.9	8644.4	10925.1	13261.8	16715.7	17393.8	16464.4	13235.0	8385.9	3631.9	1478.1
75°	4636.9	5024.7	8137.1	9986.0	11222.7	11842.2	11500.7	8490.8	3714.9	948.8	441.5
77.5°	1568.4	1697.7	3785.6	6178.4	7407.8	6851.6	5800.4	4217.3	1365.9	361.0	234.2
80°	929.3	978.1	1409.8	3075.8	3897.8	3231.9	2551.4	1558.6	695.2	192.7	163.4
82.5°	278.1	329.3	778.1	1141.5	1526.9	951.3	804.9	890.3	361.0	104.9	136.6
85°	0.0	0.0	165.9	353.7	400.0	156.1	156.1	504.9	65.9	43.9	100.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.4	12.2	7.3	9.8	22.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638752
 CATALOG NUMBER: GWS-SA4F-740-U-SL4-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4549.1	4549.1	4549.1	4549.1	4549.1	4549.1	4549.1	4549.1	4549.1	4549.1	4549.1
2.5°	4519.8	4434.4	4334.4	4239.3	4149.0	4032.0	3975.9	3907.6	3849.0	3817.3	3834.4
5°	4429.5	4295.4	4090.5	3883.2	3673.4	3475.8	3297.8	3178.2	3070.9	3014.8	3027.0
7.5°	4351.5	4171.0	3851.5	3512.4	3175.8	2836.8	2561.1	2346.5	2180.6	2112.3	2100.1
10°	4317.3	4090.5	3639.3	3151.4	2634.3	2178.2	1787.9	1551.3	1383.0	1300.1	1314.7
12.5°	4334.4	4049.0	3458.8	2797.7	2127.0	1595.2	1222.0	1000.1	880.5	831.8	819.6
15°	4383.2	4039.3	3297.8	2436.7	1641.6	1114.7	844.0	753.7	729.3	724.4	724.4
17.5°	4439.3	4041.7	3131.9	2070.9	1246.4	826.9	722.0	704.9	697.6	692.7	695.2
20°	4495.4	4041.7	2941.6	1700.1	936.6	714.7	687.8	675.7	668.3	665.9	665.9
22.5°	4563.7	4041.7	2729.4	1356.2	751.3	678.1	656.1	648.8	641.5	639.1	636.6
25°	4646.6	4044.2	2495.3	1061.0	683.0	646.4	629.3	622.0	614.7	609.8	609.8
27.5°	4766.2	4063.7	2236.7	826.9	643.9	617.1	602.5	595.2	587.8	580.5	580.5
30°	4939.3	4112.5	1946.5	683.0	607.4	585.4	570.8	565.9	558.6	551.3	548.8
32.5°	5197.9	4197.8	1646.4	612.2	573.2	551.3	534.2	529.3	522.0	514.7	512.2
35°	5558.9	4353.9	1353.7	568.3	529.3	507.3	497.6	495.2	485.4	478.1	478.1
37.5°	6088.2	4607.6	1073.2	524.4	492.7	475.6	463.4	458.6	448.8	441.5	439.1
40°	6734.6	4936.9	834.2	490.3	458.6	441.5	429.3	422.0	409.8	400.0	395.1
42.5°	7559.0	5339.4	658.6	453.7	426.9	409.8	400.0	385.4	368.3	353.7	351.2
45°	8417.6	5754.0	543.9	419.5	397.6	383.0	370.8	351.2	326.8	309.8	304.9
47.5°	9076.2	6012.6	475.6	383.0	365.9	353.7	339.0	314.7	285.4	265.9	261.0
50°	9546.9	6051.6	424.4	348.8	339.0	326.8	304.9	275.6	243.9	224.4	219.5
52.5°	9778.7	5876.0	383.0	317.1	309.8	297.6	270.7	239.0	204.9	185.4	180.5
55°	9883.5	5544.2	343.9	290.3	280.5	265.9	236.6	202.5	168.3	151.2	146.4
57.5°	9842.1	5054.0	309.8	263.4	251.2	234.2	202.5	165.9	139.0	122.0	119.5
60°	9534.7	4366.1	275.6	236.6	222.0	202.5	170.7	136.6	112.2	100.0	97.6
62.5°	8871.3	3512.4	241.5	204.9	195.1	175.6	146.4	112.2	92.7	85.4	82.9
65°	7512.7	2483.1	207.3	173.2	168.3	148.8	122.0	92.7	80.5	75.6	73.2
67.5°	5400.3	1509.9	175.6	148.8	143.9	126.8	102.4	80.5	73.2	70.7	70.7
70°	2714.8	714.7	139.0	122.0	122.0	104.9	87.8	73.2	70.7	68.3	68.3
72.5°	922.0	304.9	104.9	95.1	100.0	90.2	75.6	68.3	68.3	68.3	68.3
75°	314.7	161.0	73.2	68.3	73.2	73.2	65.9	65.9	68.3	68.3	68.3
77.5°	204.9	107.3	51.2	46.3	56.1	56.1	56.1	61.0	65.9	65.9	65.9
80°	168.3	58.5	34.1	31.7	41.5	41.5	46.3	56.1	61.0	61.0	61.0
82.5°	143.9	36.6	19.5	22.0	29.3	31.7	39.0	46.3	53.7	56.1	56.1
85°	97.6	19.5	14.6	17.1	19.5	24.4	31.7	39.0	43.9	48.8	48.8
87.5°	26.8	7.3	9.8	12.2	12.2	17.1	24.4	29.3	34.1	36.6	36.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)